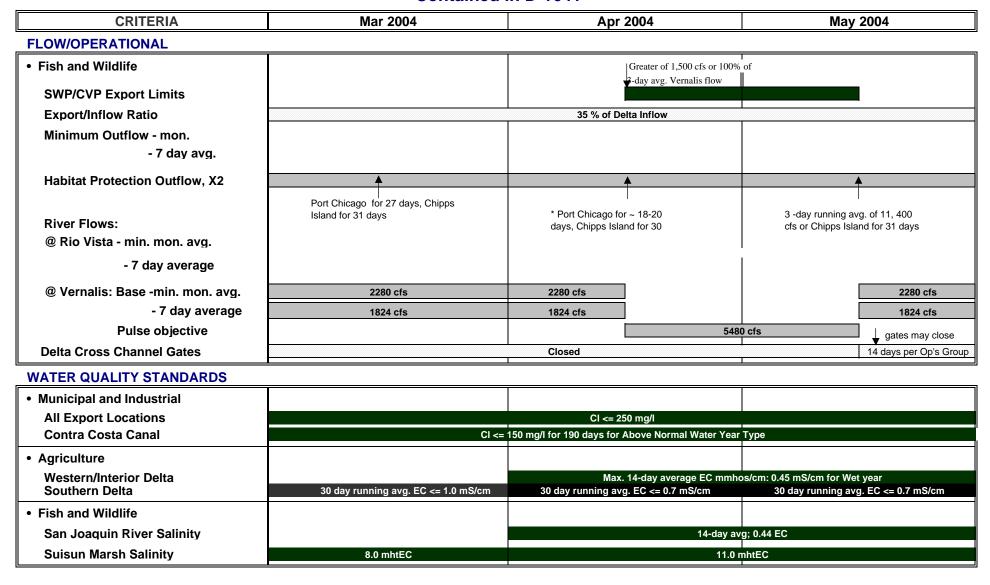




Bay-Delta Standards

DRAFT

Contained in D-1641

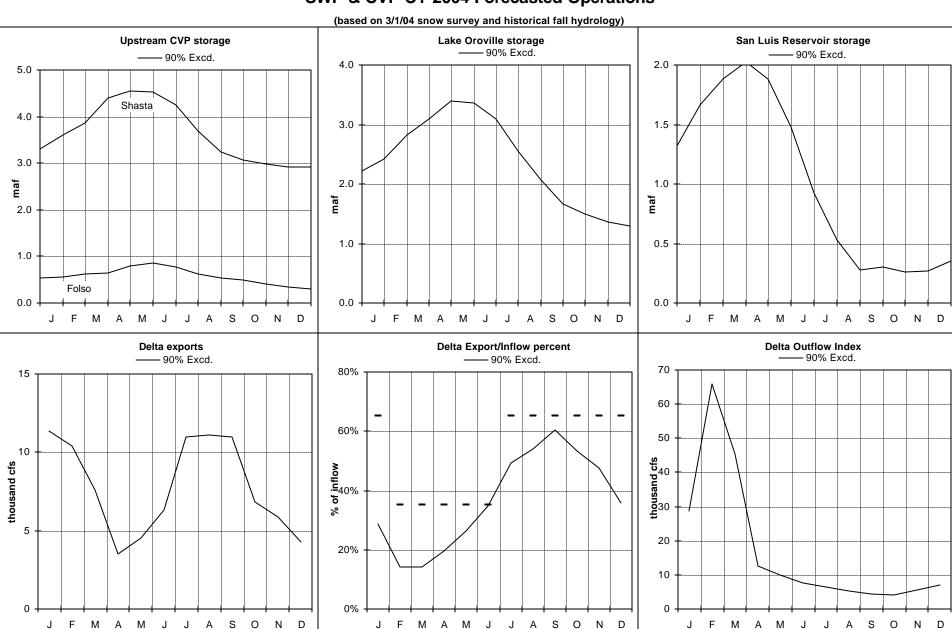


Water Year Classification: Above Normal (Based on forecast, 3/1/2004)

SRI (40-30-30 @ 50%) = 8.5 MAF

SJV (60-20-20 @75%) = 2.6 MAF

SWP & CVP CY 2004 Forecasted Operations



Flows are monthly averages.

| | | | | | WY 2003/ | /2004 EW <i>F</i> | Account | ina Summ | arv | | | | | | | | |
|---|---|---|--|---|--|--|--|---|--|---|---|---|--|---|---|---|--|
| | _ | | | | d upon Ma | rch Study - | 90% Exc | eedance l | Hydrology | | | | | | | | |
| | As | ssumption | | | | | | | rchases - d (- = Rele | | WD SS - 7 | 5 TAF | | | | | |
| 1 | C/O | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| NOD (Oroville) ⁰ | 0.398 | | | | | -0.398 ³ | | | | 75 ^{4 5} | | 45 | 45 | | | | C |
| NOD (YCWA/PCWA) Carriage Water Loss | - | | | | | | | | | 75 ** | | -38 ^{4 5} | -38 ^{4 5} | | | | -15 |
| SOD (KCWA/SCVWD) | | | | | | | | | 85 ⁶ | -30 ⁶ | -30 ⁶ | -25 ⁶ | -0 | | | | -10 |
| SOD (MWD) | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | | |
| 2 | C/O | Oct | Nov | Dec | EWA Asse Jan | et Acquisi Feb | tion in SV Mar | VP San L Apr | uis¹ May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| E/I Relaxation | | OCI | 1407 | Dec | Jan | 1 65 | iviai | Дрі | iviay | Juli | Jui | Aug | Оер | Oct | 1407 | Dec | 1 Otal |
| EWA share of SWP gain | | | | | | | | | | | | | | | | | C |
| Project Pumping to reduce EWA debt | | | | | | | | | | | | | | | | | 0 |
| JPOD using excess flows JPOD using NOD storage | | | | | | | | | | | | | | | | | 0 |
| Xfer NOD - Sacramento River ² | | | | | | | | | | | | 17 ^{4 5} | 17 ^{4 5} | | | | 35 |
| Xfer NOD - San Joaquin River ² | | | | | | | | | | | | | | | | | 0 |
| SOD SWP Surface/GW Purchases | <u> </u> | | | | | | | | | 30 ⁶ | 30 ⁶ | 25 ⁶ | | | | | 85 |
| Exchange of EWA assets | <u> </u> | | | | | | | | | | | | | | | | 0 |
| Groundwater pumping SOD Exchange from CVP to SWP in SL | - | | | | | | | | | | | | | | | | 0 |
| Total Monthly EWA Assets | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 42 | 17 | 0 | 0 | 0 | 120 |
| | | | | | | | | | | | | | | | | | |
| 3 | C/O | Oct | Nov | Dec | EWA Ass | et Acquis Feb | ition in C Mar | VP San L Apr | uis May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| E/I Relaxation | | | | | | | | | | | | 1129 | | | | | 0 |
| Project Pumping to reduce EWA debt | | | | | | | 0.202 | | | | | | | | | | 0 |
| JPOD using excess flows | | | | | | | | | | | | | | | | | 0 |
| JPOD using NOD storage Xfer NOD - Sacramento River ² | _ | | | | | | | | | | | 13 45 | 13 45 | | | | 25 |
| Xfer NOD - Sacramento River ² | | | | | | | | | | | | 13 | 13 | | | | 0 |
| SOD CVP Surface/GW purchases | | | | | | | | | | | | | | | | | 0 |
| Exchange of EWA assets | | | | | | | | | | | | | | | | | 0 |
| Groundwater pumping Exchange from SWP to CVP in SL | - | | | | | | | | | | | | | | | | 0 |
| Total Monthly EWA Assets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0 | 26 |
| | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | _ | | | | | _ | Total |
| 7 | C/O | Oct | Nov | Dec | | | | port Pun | | .lun | .lul | Aug | Sen | Oct | Nov | Dec | |
| SWP export cuts | C/O | Oct | Nov | Dec | Jan | enditures Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| SWP export cuts | C/O | Oct | Nov | Dec | | | | | Мау -76 | Jun -50 | Jul | Aug | Sep | Oct | Nov | Dec | -173 |
| SWP export cuts CVP export cuts Total Expenditures | C/O 0 | Oct | Nov 0 | Dec 0 | | | Mar | Apr | May | | Jul 0 | Aug 0 | Sep 0 | Oct 0 | Nov 0 | Dec 0 | |
| CVP export cuts | | | | 0 | Jan 0 | Feb 0 | -50 | Apr 3 | -76 -25 -101 | -50 | | | | | | | -173 -25 |
| CVP export cuts | 0 | 0 | 0 | 0 EW/ | Jan 0 A End-of-M | Feb 0 | -50 -50 -50 | Apr 3 3 Storage C | -76 -25 -101 | -50 - 50 | 0 | 0 | 0 | 0 | 0 | 0 | -173 -25 -198 |
| CVP export cuts | | | | 0 | Jan 0 | Feb 0 | -50 | Apr 3 | -76 -25 -101 | -50 | | | | | | | -173 -25 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL | C/O 0.057 -0.202 | Oct 0 0.000 | 0 Nov 0 0.000 | 0 EW/ Dec 0 0.000 | 0 | Feb 0 | -50 -50 emental \$ Mar -50 0.202 | 3 3 Storage C Apr 3 0 | -76 -25 -101 Changes May -76 -25 | -50 -50 Jun -20 | 0 Jul 30 0 | 0 Aug 42 13 | Sep 17 13 | 0 Oct 0 0 | 0 Nov 0 0 | 0 Dec 0 0 | -173 -25 -198 Total |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage | C/O 0.057 -0.202 0.398 | Oct 0 0.000 0 | Nov 0 0.000 | 0 EW/ Dec 0 0.000 | 0 A End-of-N Jan 0 0.000 | Month Incr Feb 0 0.000 -0.398 | -50 -50 -50 emental \$ Mar -50 0.202 0 | 3 3 Storage C Apr 3 0 0 | May -76 -25 -101 Changes May -76 -25 0 | -50 -50 Jun -20 0 75 | 0 Jul 30 0 | 0 Aug 42 13 -38 | Sep 17 13 -38 | Oct 0 0 0 | 0 Nov 0 0 | 0 Dec 0 0 0 0 | -173 -25 -198 Total |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL | C/O 0.057 -0.202 | Oct 0 0.000 | 0 Nov 0 0.000 | 0 EW/ Dec 0 0.000 | 0 | Feb 0 | -50 -50 emental \$ Mar -50 0.202 | 3 3 Storage C Apr 3 0 | -76 -25 -101 Changes May -76 -25 | -50 -50 Jun -20 | 0 Jul 30 0 | 0 Aug 42 13 | Sep 17 13 | 0 Oct 0 0 | 0 Nov 0 0 | 0 Dec 0 0 | -173 -25 -198 Total |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) | C/O 0.057 -0.202 0.398 0.000 | Oct 0 0.000 0 | Nov 0 0.000 0 | 0 EW// Dec 0 0.000 0 0 | 0 A End-of-N Jan 0 0.000 0 | 0 Month Incr Feb 0 0.000 -0.398 0 | -50 -50 -50 emental \$\frac{3}{4}\$ Mar -50 0.202 0 0 -50 | 3 3 Storage C Apr 3 0 0 0 3 | May -76 -25 -101 Changes May -76 -25 0 85 -16 | -50 -50 Jun -20 0 75 -30 | Jul 30 0 0 | 0 Aug 42 13 -38 -25 | Sep 17 13 -38 0 | Oct 0 0 0 0 0 | 0 0 0 0 0 | Dec 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) | C/O 0.057 -0.202 0.398 0.000 0.253 | Oct 0 0.000 0 0 0 | Nov 0 0.000 0 0 | 0 EW/ Dec 0 0.000 0 0 | 0 A End-of-N Jan 0 0.000 0 0 | Feb | -50 -50 emental \$\frac{1}{2}\$ Mar -50 0.202 0 -50 ge Balance | 3 3 Storage C Apr 3 0 0 3 ce at Vari | May -76 -25 -101 Changes May -76 -25 0 85 -16 ous Sites | -50 -50 Jun -20 0 75 -30 25 | Jul 30 0 0 -30 | 0 42 13 -38 -25 -8 | Sep 17 13 -38 0 -8 | Oct 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes | C/O 0.057 -0.202 0.398 0.000 0.253 | Oct 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0.0000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 EW/ Dec 0 0.000 0 0 0 | 0 A End-of-N-0 Jan 0 0.000 0 0 0 0 | Feb 0 | Mar -50 -50 emental \$\frac{1}{2}\$ Mar -50 0.202 0 -50 ge Balane Mar | 3 3 Storage C Apr 3 0 0 0 3 3 ce at Vari | -76 -25 -101 Changes May -76 -25 0 85 -16 ous Sites May | -50 Jun -20 0 75 -30 25 | 0 Jul 30 0 0 -30 0 | Aug 42 13 -38 -25 -8 | Sep 17 13 -38 0 -8 | Oct 0 0 0 0 0 Oct | Nov 0 0 0 0 0 0 0 Nov | Dec 0 0 0 0 0 Dec Dec | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) | C/O 0.057 -0.202 0.398 0.000 0.253 | Oct 0 0.000 0 0 0 | Nov 0 0.000 0 0 | 0 EW/ Dec 0 0.000 0 0 | 0 A End-of-N Jan 0 0.000 0 0 | Feb | -50 -50 emental \$\frac{1}{2}\$ Mar -50 0.202 0 -50 ge Balance | 3 3 Storage C Apr 3 0 0 3 ce at Vari | May -76 -25 -101 Changes May -76 -25 0 85 -16 ous Sites | -50 -50 Jun -20 0 75 -30 25 | Jul 30 0 0 -30 | 0 42 13 -38 -25 -8 | Sep 17 13 -38 0 -8 | Oct 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec O O O O O O O O O | 0 A End-of-Mo Jan 0 0.000 0 0 End-of-Mo Jan 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Feb 0 | Mar -50 -50 emental : Mar -50 0.202 0 -50 ge Balanc Mar -50 0 0 0 0 0 0 | 3 3 Storage C Apr 3 0 0 0 3 ce at Vari Apr -47 0 0 | May -76 -25 -101 | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 | Jul 30 0 0 -30 0 Jul -113 -25 75 | Aug 42 13 -38 -25 -8 Aug -70 -13 38 | Sep 17 13 -38 0 -8 Sep -53 0 0 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage SOD Storage SOD Storage SOD Storage (non-S.L.) | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 0.000 | Oct 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | EW/Dec 0 0.000 0 0 0 0 0 0 0 | 0 A End-of-M Jan 0 0.000 0 0 0 End-of-M Jan 0 -0.202 0.398 | Feb 0 | -50 -50 -50 -50 -50 -50 -50 -50 -50 -50 | 3 3 Storage C Apr 3 0 0 0 3 Ce at Vari Apr -47 0 0 0 0 | May -76 -25 -101 Changes May -76 -25 0 85 -16 OUS Sites May -123 -25 0 85 | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 55 | Jul 30 0 0 -30 0 Jul -113 -25 75 25 | Aug 42 13 -38 -25 -8 Aug -70 -13 38 0 | Sep 17 13 -38 0 -8 Sep -53 0 0 0 0 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 Dec -53 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec O O O O O O O O O | 0 A End-of-Mo Jan 0 0.000 0 0 End-of-Mo Jan 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Feb 0 | Mar -50 -50 emental : Mar -50 0.202 0 -50 ge Balanc Mar -50 0 0 0 0 0 0 | 3 3 Storage C Apr 3 0 0 0 3 ce at Vari Apr -47 0 0 | May -76 -25 -101 | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 | Jul 30 0 0 -30 0 Jul -113 -25 75 | Aug 42 13 -38 -25 -8 Aug -70 -13 38 | Sep 17 13 -38 0 -8 Sep -53 0 0 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage SOD Storage SOD Storage SOD Storage (non-S.L.) | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 0.000 0.253 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | EWA Dec 0 0.0000 0 0 EWA Dec 0 -0.202 0.398 0 0 | 0 A End-of-Mo Jan 0 0.000 0 0 0 0 End-of-Mo Jan 0 -0.202 0.398 0 0 San Luis | Feb 0 | -50 -50 -50 -50 -50 -50 -50 -50 -50 -50 | 3 3 Storage C Apr 3 0 0 0 0 3 See at Vari Apr -47 0 0 -47 Conditio | May -76 -25 -101 Changes May -76 -25 0 85 -16 ous Sites May -123 -25 0 85 -63 | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 -38 | Jul 30 0 0 -30 0 Jul -113 -25 75 25 -38 | Aug 42 13 -38 -25 -8 Aug -70 -13 38 0 -45 | Sep 17 13 -38 0 -8 Sep -53 0 0 0 -53 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage SOD Storage (non-S.L.) EWA Asset Balance 7 | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 0.000 | Oct | Nov 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | EWA Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Jan O O O O O O O O O | Feb | -50 -50 -50 -50 -50 -50 -50 -50 -50 -50 | 3 3 Storage C Apr 3 0 0 0 3 Ce at Vari Apr -47 0 0 0 -47 Conditio | -76 -25 -101 Changes May -76 -25 -101 Changes May -76 -25 -0 -85 -16 Ous Sites May -123 -25 -63 ms May | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 -55 -38 | Jul 30 0 0 -30 0 Jul -113 -25 75 25 -38 Jul | Aug 42 13 -38 -25 -8 Aug -70 -13 38 0 -45 | Sep 17 13 -38 0 -8 Sep -53 0 0 0 -53 Sep Sep | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage SOD Storage SOD Storage (non-S.L.) EWA Asset Balance 7 Total Storage (base case) 7 | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 0.000 0.253 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | EWA Dec 0 0.0000 0 0 EWA Dec 0 -0.202 0.398 0 0 | 0 A End-of-Mo Jan 0 0.000 0 0 0 0 End-of-Mo Jan 0 -0.202 0.398 0 0 San Luis | Feb 0 | -50 -50 -50 -50 -50 -50 -50 -50 -50 -50 | 3 3 Storage C Apr 3 0 0 0 0 3 See at Vari Apr -47 0 0 -47 Conditio | May -76 -25 -101 Changes May -76 -25 0 85 -16 ous Sites May -123 -25 0 85 -63 | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 -38 | Jul 30 0 0 -30 0 Jul -113 -25 75 25 -38 | Aug 42 13 -38 -25 -8 Aug -70 -13 38 0 -45 | Sep 17 13 -38 0 -8 Sep -53 0 0 0 -53 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage SOD Storage (non-S.L.) EWA Asset Balance 7 Total Storage (base case) 7 Encroachment | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 0.000 0.253 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | EWA Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Jan O O O O O O O O O | Feb | Mar -50 | 3 3 Storage C Apr 3 0 0 0 3 Ce at Vari Apr -47 0 0 0 -47 Conditio Apr 1868 | May -76 -25 -101 Changes May -76 -25 0 85 -16 Ous Sites May -123 -25 0 85 -63 | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 -55 -38 Jun 775 | Jul 30 0 0 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 | Aug 42 13 -38 -25 -8 Aug -70 -13 38 0 -45 | Sep 17 13 -38 0 -8 Sep -53 0 0 -53 Sep 211 | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |
| CVP export cuts Total Expenditures 5 SWP in SL (without Source Shift) CVP in SL NOD Storage SOD Storage (non-S.L.) Total Incremental Storage Changes 6 SWP in SL (without Source Shift) CVP SL NOD Storage SOD Storage (non-S.L.) EWA Asset Balance 7 Total Storage (base case) 7 | C/O 0.057 -0.202 0.398 0.000 0.253 C/O 0.057 -0.202 0.398 0.000 0.253 | Oct | Nov 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | EWA Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Jan O O O O O O O O O | Feb | -50 -50 -50 -50 -50 -50 -50 -50 -50 -50 | 3 3 Storage C Apr 3 0 0 0 3 Ce at Vari Apr -47 0 0 0 -47 Conditio | -76 -25 -101 Changes May -76 -25 -101 Changes May -76 -25 -0 -85 -16 Ous Sites May -123 -25 -63 ms May | -50 -50 Jun -20 0 75 -30 25 Jun -143 -25 75 -55 -38 | Jul 30 0 0 -30 0 Jul -113 -25 75 25 -38 Jul | Aug 42 13 -38 -25 -8 Aug -70 -13 38 0 -45 | Sep 17 13 -38 0 -8 Sep -53 0 0 0 -53 Sep Sep | Oct 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Nov 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Dec 0 0 0 0 0 0 0 0 0 | -173 -25 -198 Total -53 0 |

^{0 2004} NOD Purchases = 65(YCWA) + 10(PCWA). YCWA has firm 65 taf; exercised options for an additional 77.5 taf. PCWA has firm 10 taf; can exercise options for an additional 10 taf.

¹ Aqueduct conveyance and evaporation losses are not included.

² Carriage water loss applies to water transfers from the Sacramento River; a 10% conveyance loss applies to water transfers from the San Joaquin River. Carriage water loss in WY 2003 was 0%.

³ The SWP spilled ~ 400 af of EWA water stored in Oroville during flood control operations.

⁴ 2004 YCWA Transfer (Joint place of use) ⁵ 2004 PCWA Transfer (Joint place of use)

⁶ 2004 SOD Transfers - 85 TAF from KCWA (SWP place of use)

⁷ Based upon DWR's 90% (75% Fall) allocation study (dated 3/2004) and the USBR's "Mar90B2" study (dated 3/18/04).

| | | | | | | 2004 EWA | | | | | | | | | | | |
|---|--------------------------------|---------------|----------------------|---------------|------------------------|---------------------|--|--|------------------|-------------------|-------------------|--------------------|--------------------|-------------|--|------------|--|
| | | | | | on March Op | perations S | tudy - 50% | 6 Exceeda | ance Hydro | | | | | | | | |
| | As | sumptions | | | 95%; NOD and SOD St | | | | | | WD SS - | 75 TAF | | | | | |
| | C/O | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Tot |
| OD (Oroville) ⁰ | 0.398 | | | | | -0.398 ³ | | | | | | | | | | | |
| OD (YCWA/PCWA) | | | | | | | | | | 75 ^{4 5} | | -38 ^{4 5} | -38 ^{4 5} | | | | |
| Carriage Water Loss | | | | | | | | | | | | -8 | -8 | | | | |
| OD (KCWA/SCVWD) | | | | | | | | | 170 ⁶ | -50 ⁶ | -75 ⁶ | -45 ⁶ | | | | | |
| SOD (MWD) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | _ | _ | | EWA Asse | et Acquisit | ion in SV | VP San L | uis ¹ | | | | | _ | _ | | _ |
| | C/O | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | To |
| /I Relaxation | | | | | | | | | | | | | | | | | |
| WA share of SWP gain | | | | | | | | | | | | | | | | | <u> </u> |
| Project Pumping to reduce EWA debt | | | | | | | | | | | | | | | | | ₩ |
| POD using excess flows | <u> </u> | | | | | | | | | | | | | | | | ┼ |
| POD using NOD storage | | | | | | | | | | | | 00.45 | 00.45 | | | | - |
| fer NOD - Sacramento River ² | | | | | | | | | | | | 30 45 | 30 45 | | | | - |
| fer NOD - San Joaquin River ² | <u> </u> | | | | | | | | | F0 6 | 45.6 | 45.6 | | ├── | | | ₩ |
| SOD SWP Surface/GW Purchases | <u> </u> | | | | | | | - | | 50 ⁶ | 45 ⁶ | 45 ⁶ | | ├ | - | | |
| exchange of EWA assets | <u> </u> | | | | | | | - | | ļ | | 1 | | ├ | - | | ₩ |
| Groundwater pumping SOD | <u> </u> | | | | | | | - | | ļ | | 1 | | ├ | - | | ₩ |
| Exchange from CVP to SWP in SL Fotal Monthly EWA Assets | + | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 45 | 75 | 30 | 0 | 0 | 0 | + : |
| otal Monthly EWA Assets | | U | U | U | U | U | | U | U | 30 | 43 | 73 | 30 | | U | U | <u>ـــــــــــــــــــــــــــــــــــــ</u> |
| | | | | | EWA Acc | et Acquisi | tion in C | /D San I | uie | | | | | | | | |
| • | C/O | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | To |
| :/I Relaxation | T | 000 | 1101 | 200 | - Cuii | . 00 | iviai | 7 45. | may | - Cuii | - Cui | riug | СОР | | | 200 | <u> </u> |
| Project Pumping to reduce EWA debt | | | | | | | 0.202 | | | | | | | | | | t |
| POD using excess flows | | | | | | | | | | | | | | | | | |
| POD using NOD storage | | | | | | | | | | | | | | | | | |
| (fer NOD - Sacramento River ² | | | | | | | | | | | | | | | | | |
| (fer NOD - San Joaquin River ² | | | | | | | | | | | | | | | | | |
| SOD CVP Surface/GW purchases | | | | | | | | | | | 30 ⁶ | | | | | | |
| Exchange of EWA assets | | | | | | | | | | | | | | | | | |
| Groundwater pumping | | | | | | | | | | | | | | | | | |
| Exchange from SWP to CVP in SL | | | | | | | | | | | | | | | | | |
| Total Monthly EWA Assets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | |
| | 0/0 | I 0-1 | N | l 5 | | enditures | | | | 1 1 | 11 | 1 | | 1 0 | I | D | 1 - |
| | C/O | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Tot |
| SWP export cuts | | | | | | | -50 | -14 | -152 | -50 | | | | | | | -2 |
| CVP export cuts | | | | | | | | | -25 | | | | | | | | |
| Total Expenditures | 0 | 0 | 0 | 0 | 0 | 0 | -50 | -14 | -177 | -50 | 0 | 0 | 0 | 0 | 0 | 0 | -2 |
| | | | | | | | | | | | | | | | | | |
| | | | | | A End-of-N | | | | | | | | | | | _ | |
| 5 | C/O | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | To |
| SWP in SL (without Source Shift) | 0.065 | 0 | 0 | 0 | 0 | 0 | -50 | -14 | -152 | 0 | 45 | 75 | 30 | 0 | 0 | 0 | <u> </u> |
| CVP in SL NOD Storage | -0.202 0.398 | 0.000 | 0.000 | 0.000 | 0.000 | -0.398 | 0.202 | 0 | -25 0 | 75 | 30 0 | -38 | -38 | 0 | 0 | 0 | ₩ |
| SOD Storage (non-S.L.) | 0.000 | 0 | 0 | 0 | 0 | -0.398 | 0 | 0 | 170 | -50 | -75 | -38 -45 | -38 | 0 | 0 | 0 | + |
| otal Incremental Storage Changes | 0.000 | 0 | 0 | 0 | 0 | 0 | - 50 | -14 | -7 | -50 25 | 0 | -45 -8 | - 8 | 0 | 0 | 0 | + |
| otal incremental Storage Changes | 0.201 | U | U | U | U | U | -30 | -14 | -/ | 20 | U | -0 | -0 | | U | U | |
| | | | | ΕWΛ | End-of-Mo | nth Stora | ne Ralan | e at Vari | nus Sitas | | | | | | | | _ |
| | C/O | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | I |
| | 0.065 | 0 | 0 | 0 | 0 | 0 | -50 | -64 | -216 | -216 | -171 | -96 | -66 | -66 | -66 | -66 | \vdash |
| WP in SL (without Source Shift) | -0.202 | -0.202 | -0.202 | -0.202 | -0.202 | -0.202 | 0 | 0 | -25 | -25 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | | 0.398 | 0.398 | 0.398 | 0.000 | 0 | 0 | 0 | 75 | 75 | 38 | 0 | 0 | 0 | 0 | 1 |
| CVP SL | | 0.398 | | | | | | | 170 | 120 | 45 | | | | | 0 | 1 |
| CVP SL IOD Storage | 0.398 | 0.398 | 0 | 0 | 0 | 0 | 0 | 0 | 170 | | 70 | 0 | 0 | 0 | 0 | U | |
| CVP SL IOD Storage GOD Storage (non-S.L.) | 0.398 | | | 0 0 | 0 0 | 0 0 | - 50 | -64 | - 71 | -46 | -46 | -54 | - 61 | -61 | - 61 | <u>-61</u> | L |
| CVP SL IOD Storage GOD Storage (non-S.L.) | 0.398 | 0 | 0 | | | | | | | | | | | | | | |
| CVP SL NOD Storage SOD Storage (non-S.L.) | 0.398 | 0 | 0 | | 0 | | -50 | -64 | -71 | | | | | | | | |
| CVP SL IOD Storage IOD Storage (non-S.L.) | 0.398 | 0 | 0 | | 0 | 0 | -50 | -64 | -71 | | | | | | | | |
| CVP SL IOD Storage IOD Storage (non-S.L.) EWA Asset Balance | 0.398 0.000 0.261 | 0 0 | 0 0 | 0 | San Luis | Reservoir | -50 Storage | -64 Conditio | -71 ns | -46 | -46 | -54 | -61 | -61 | -61 | -61 | <u> </u> |
| CVP SL IOD Storage OD Storage (non-S.L.) EWA Asset Balance Otal Storage (base case) 7 | 0.398 0.000 0.261 | 0 0 | 0 0 Nov | Dec | San Luis | Reservoir Feb | -50 Storage Mar | -64 Conditio Apr | -71 ns May | -46 Jun | -46 Jul | -54 Aug | -61 Sep | -61 Oct | -61 Nov | -61 Dec | |
| SWP in SL (without Source Shift) CVP SL NOD Storage SOD Storage (non-S.L.) EWA Asset Balance 7 Total Storage (base case) 7 Encroachment Total Storage (EWA case) | 0.398 0.000 0.261 | 0 0 | 0 0 Nov | Dec 1010 | San Luis | Reservoir Feb | -50 Storage Mar | -64 Conditio Apr | -71 ns May | -46 Jun | -46 Jul | -54 Aug | -61 Sep | -61 Oct | -61 Nov | -61 Dec | <u> </u> |

⁰ 2004 NOD Purchases = 65(YCWA) + 10(PCWA). YCWA has firm 65 taf; can exercise options for an additional 120 taf. PCWA has firm 10 taf; can exercise options for an additional 10 taf.

1878 1979 1754 1141

633

236

339

¹ Aqueduct conveyance and evaporation losses are not included.

788 1010 1664

Carriage water loss in WY 2003 was 0%.

Storage (with MWD source shifting)

950

651

²Carriage water loss applies to water transfers from the Sacramento River; a 10% conveyance loss applies to water transfers from the San Joaquin River.

The SWP spilled ~ 400 af of EWA water stored in Oroville during flood control operations.
 2004 YCWA Transfer (Joint place of use)

⁶ 2004 SOD Transfers - 115 TAF from KCWA (SWP place of use); 25 TAF from MWD (SWP place of use); and 30 TAF from SCVWD (CVP place of use)

⁷ Based upon DWR's 50% (75% Fall) allocation study (dated 3/2004) and the USBR's "Mar50B2" study (dated 3/18/04).